

WHAT IS CLAIMED IS:

1. A member adapted to be used in friction stir welding, comprising:

a member having a recessed portion along an end portion of said member,

said recessed portion opening directed toward an outer side in a thickness direction of said member and toward one end direction of said member,

a raised portion projecting to an outer side in the thickness direction, from an outer side of said member, and

said raised portion is a portion adapted to have a friction stir welding carried out therein by inserting a rotary tool therein.

2. A hollow frame member adapted to be used in friction stir welding, comprising:

a first plate, a second plate which is substantially in parallel to said first plate, and a third plate connecting said first plate and said second plate,

said first plate having a recessed portion in a side of an outer side of said first plate along to an end portion of said first plate,

said recessed portion opening directed toward an outer side in a thickness direction of said hollow frame member and toward one end direction of said hollow frame member,

a raised portion in a side of another end of said first plate, connected to said recessed portion and projecting to an outer side in the thickness direction from an outer side of said first plate, and

said raised portion is a portion adapted to have a friction stir welding carried out therein by inserting a rotary tool therein.

3. A hollow frame member according to claim 2, wherein said recessed portion is provided at a connection portion of said third plate and said one end portion of said first plate.

4. A hollow frame member according to claim 3, wherein:
said third plate of said first member is substantially orthogonal to said first plate, and

a face from an apex of said raised portion to a bottom face of said recessed portion is positioned in a range of an extension line in a thickness of said third plate.

5. A hollow frame member according to claim 4, wherein said face from said apex of said raised portion to said bottom face of said recessed portion is positioned at an extension line of a center in a thickness of said third plate.

6. A hollow frame member according to claim 4, wherein said face from said apex of said raised portion to said bottom face of said recessed

portion is positioned at another end side of said first plate from a center in a thickness of said third plate.

7. A hollow frame member according to claim 2, wherein:

at a side of said end portion of said first plate, having said recessed portion, a second recessed portion is provided along to said one end of said second plate,

said second recessed portion opens directed toward an outer side in a thickness direction of said hollow frame member and toward said one end direction of said first plate,

at a side of another end of said second plate beyond said second recessed portion, a second raised portion connecting to said second recessed portion and projecting to an outer side in the thickness direction from an outer side of said second plate is provided, and

said second raised portion is a portion adapted to have a friction stir welding carried out therein by inserting a rotary tool therein.

8. A hollow frame member according to claim 7, wherein said second recessed portion is provided at a connection portion of said third plate and said one end of said second plate.

9. A hollow frame member according to claim 7, wherein:

said third plate is substantially orthogonal to said second plate, and

a second face from an apex of said second raised portion to a bottom face of said second recessed portion is positioned in a range of an extension line in a thickness of said third plate.

10. A hollow frame member according to claim 8, wherein a second corner portion, of said second recessed portion, is positioned at an extension line of a center in a thickness of said third plate.

11. A hollow frame member according to claim 8, wherein a second corner portion is positioned at another end side of said second plate from a center in a thickness of said third plate.